

Appl. No. : 09/651,051
Filed : August 24, 2000

AMENDMENTS TO THE CLAIMS

Amendments to the Claims:

Please cancel Claim 26 without prejudice. No other amendments to the claims have been made.

The below listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-12. (Cancelled)

13. (Original) A direct fuel injected system for an internal combustion engine having at least one combustion chamber, comprising a high pressure fuel pump for developing high pressure fuel, a fuel injector to directly inject fuel into the combustion chamber of said engine, a pressure regulator to regulate fuel pressure within the fuel system, and a fuel pressure sensor for sensing a fuel pressure of the fuel, said fuel pressure sensor being secured to said engine through a vibration damping apparatus.

14. (Original) A direct fuel injected system as set forth in Claim 13, wherein said fuel pressure sensor is positioned between said fuel pump and said pressure regulator.

15. (Original) A direct fuel injected system as set forth in Claim 13, wherein said fuel system further includes a fuel rail that supplies fuel to said fuel injector and said fuel pressure sensor is connected to said fuel rail downstream of said fuel injector.

16. (Original) A direct fuel injected system as set forth in Claim 13, wherein said vibration damping apparatus includes dampening materials.

17. (Original) A direct fuel injected system as set forth in Claim 13, wherein said vibration damping apparatus includes a first and a second dampening material, said first dampening material being stiffer than the second dampening material.

18. (Original) A direct fuel injected system as set forth in Claim 13, wherein said vibration dampening apparatus includes an electronic control box for housing an electronic control unit.

19. (Original) A direct fuel injected system as set forth in Claim 18, wherein said vibration dampening apparatus further includes a fuel injector driver box for housing an injector control unit.

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20. (Original) A direct fuel injected system as set forth in Claim 19, wherein said pressure sensor is mounted onto said fuel injector driver box.

21. (Original) A direct fuel injected system as set forth in Claim 20, wherein said electronic control box is mounted on said engine and is insulated from engine vibrations by a first dampening material.

22. (Original) A direct fuel injected system as set forth in Claim 21, wherein said fuel injector driver box is mounted on said electronic control box and is insulated from the vibration of the electronic control box by a second dampening material.

23. (Original) A direct fuel injected system as set forth in Claim 22, wherein said first dampening material is stiffer than the second dampening material.

24. (Original) A direct fuel injected system for an internal combustion engine comprising a high pressure fuel pump for developing high pressure fuel, a fuel injector to directly inject fuel into a combustion chamber of said engine, a fuel pressure sensor that communicates with said fuel system for measuring a fuel pressure within said fuel system, and means for protecting the fuel pressure sensor from damage caused by engine vibrations.

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Previously presented) A direct fuel injected system for an internal combustion engine having at least one combustion chamber, comprising a high pressure fuel pump for developing high pressure fuel, a fuel injector to directly inject fuel into the combustion chamber of said engine, the fuel injector receiving high pressure fuel from the fuel pump, a fuel pressure sensor for sensing a fuel pressure of the fuel, said fuel pressure sensor being secured to said engine through a vibration damping apparatus and a pressure dampening device comprising an elastic conduit in communication with the fuel injector.